move the blocking mechanism from the blocking position to the unblocking position upon occurrence of a predetermined condition;

a nitinol wire actuator cooperating with said electronic control means and said blocking mechanism for causing said blocking mechanism to move to said unblocking position upon passing of current through said wire, under control of said control means; and

a side bar cooperating between the shell and the barrel for selectively permitting and blocking rotation of the barrel with respect to the shell, the side bar having a first portion engaging the barrel and a second portion removably received in the cavity in the shell, the side bar being movable relative to the barrel and the shell;

said blocking mechanism including a slider bar movable relative to the side bar, wherein said slider bar is positioned adjacent to a recess in said side bar for receiving said slider bar upon rotation of said barrel.--.

REMARKS

Claims 1-13, 15-20, 22, 24 and 25 are now pending in this application. Claims 14, 23 and 26 have been cancelled above, and claim 21 was previously cancelled. The rejection of claims 13, 17-19, 22 and 26 was affirmed by the Board in a decision dated January 18, 2002.

Claims 13 and 22 have been amended to include the limitations of claims 14 and 23, respectively; claims 15 and 24 have been

rewritten in independent form. Accordingly, all claims now pending contain subject matter indicated as being allowable.

With respect to claim 20, which was withdrawn from further consideration pursuant to a restriction requirement, allowance of this claim is requested in view of the fact that claim 20 depends from claim 13, which stands allowed on the record. Since claim 13 stands allowed, claim 20 is allowable since it includes all of the limitations of claim 13.

In view of the foregoing, favorable reconsideration of this application and the issuance of a Notice of Allowance are earnestly solicited.

Please charge any fee or credit any overpayment pursuant to 37 CFR 1.16 or 1.17 to Deposit Account No. 02-2135.

Respectfully submitted,

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Enclosure: Marked-Up Copy of Amendments

MARKED-UP COPY OF AMENDMENTS SHOWING CHANGES MADE

--13. (Amended) An electromechanical lock cylinder, comprising:

an outer shell having a bore formed therein and a cavity extending from the bore into the shell;

a barrel disposed within the bore in the shell and being rotatable relative thereto;

a blocking mechanism, located in said barrel, for normally blocking rotation of said barrel and being movable to an unblocking position to permit rotation of said barrel; [and]

means cooperating with the blocking mechanism for selectively moving the blocking mechanism from the blocking position to the unblocking position upon occurrence of a predetermined condition, said moving means, located in said barrel, comprising a shape memory alloy actuator activated by passing electrical current therethrough; and

a side bar cooperating between the shell and the barrel for selectively permitting and blocking rotation of the barrel with respect to the shell, the side bar having a first portion engaging the barrel and a second portion removably received in the cavity in the shell, the side bar being movable relative to the barrel and the shell;

said blocking mechanism including a slider bar movable relative to the side bar, wherein in said unblocking position a recess in said slider bar is positioned adjacent to an extension in said side bar for receiving said extension upon rotation of said barrel.--

--15. (Amended) [A lock cylinder according to claim 13, further comprising] An electromechanical lock cylinder, comprising:

an outer shell having a bore formed therein and a cavity extending from the bore into the shell;

a barrel disposed within the bore in the shell and being rotatable relative thereto;

a blocking mechanism for normally blocking rotation of said barrel and being movable to an unblocking position to permit rotation of said barrel;

means cooperating with the blocking mechanism for selectively moving the blocking mechanism from the blocking position to the unblocking position upon occurrence of a predetermined condition, said moving means comprising a shape memory alloy actuator activated by passing electrical current therethrough; and

a side bar cooperating between the shell and the barrel for selectively permitting and blocking rotation of the barrel with respect to the shell, the side bar having a first portion engaging the barrel and a second portion removably received in the cavity in the shell, the side bar being movable relative to the barrel and the shell;

said blocking mechanism including a slider bar movable relative to the side bar, wherein said slider bar is positioned adjacent to a recess in said side bar for receiving said slider bar upon rotation of said barrel.--;

--22. (Twice Amended) An electromechanical lock cylinder, comprising:

an outer shell having a bore formed therein and a cavity extending from the bore into the shell;

a barrel disposed within the bore in the shell and being rotatable relative thereto;

a blocking mechanism located in said barrel for normally blocking rotation of said barrel and being movable to an unblocking position to permit rotation of said barrel; [and]

electronic control means located at least in said lock cylinder cooperating with the blocking mechanism to selectively move the blocking mechanism from the blocking position to the unblocking position upon occurrence of a predetermined condition; [and]

a nitinol wire actuator cooperating with said electronic control means and said blocking mechanism for causing said blocking mechanism to move to said unblocking position upon passing of current through said wire, under control of said control means; and

a side bar cooperating between the shell and the barrel for selectively permitting and blocking rotation of the barrel with respect to the shell, the side bar having a first portion engaging the barrel and a second portion removably received in the cavity in the shell, the side bar being movable relative to the barrel and the shell;

said blocking mechanism including a slider bar movable relative to the side bar, wherein in said unblocking position a recess in said slider bar is positioned adjacent to an extension in said side bar for receiving said extension upon rotation of said barrel.--;

--24. (Amended) [A lock cylinder according to claim 22, further comprising] An electromechanical lock cylinder, comprising:

an outer shell having a bore formed therein and a cavity extending from the bore into the shell;

a barrel disposed within the bore in the shell and being rotatable relative thereto;

a blocking mechanism located in said barrel for normally blocking rotation of said barrel and being movable to an unblocking position to permit rotation of said barrel;

electronic control means located at least in said lock cylinder cooperating with the blocking mechanism to selectively move the blocking mechanism from the blocking position to the unblocking position upon occurrence of a predetermined condition;

a nitinol wire actuator cooperating with said electronic control means and said blocking mechanism for causing said blocking mechanism to move to said unblocking position upon passing of current through said wire, under control of said control means; and

a side bar cooperating between the shell and the barrel for selectively permitting and blocking rotation of the barrel with respect to the shell, the side bar having a first portion engaging the barrel and a second portion removably received in the cavity in the shell, the side bar being movable relative to the barrel and the shell;

said blocking mechanism including a slider bar movable relative to the side bar, wherein said slider bar is positioned adjacent to a recess in said side bar for receiving said slider bar upon rotation of said barrel.--.